Ecology and Environment, Inc. Hazard Evaluation of Chemicals Region V - Chicago



Chemical Name Arsenic	Date
DOT Classification	Job Number
CAS Number 7440-38-2	
NIOSH/OSHA Pocket Guide (ACGIH TLV Booklet) Toxic	Cle; also include MSDS if approprate.) Merck Index Hazardline (Chris(vol.III)) & Hazardous Safety Manual (SAX) (Aldrich) oull's Toxicology, Carcinogen Report-NTP83-010
Chemical Formula As Physical State black soli Flash Point N/A Fl	nyms:Arsenicals, metallic arsenic, colloidal As) MW 74.9 Ionization Potential N/A d Boiling Point_sublim Freezing Point_ ammable Limits N/A Vapor Pressure 5.7 N/A Odor/Odor Threshold odorless
	uble Solubility-other: <u>nitric acid</u> ivity: halogens, oxidizers, zinc, bromine azide, air
STEL none Cei Toxicity Data: (Indicate Human; IHL	(ACGIH) 0.2 mg/m ³ PEL (OSHA) 10 ug/m ³ ling Limits 2ug/m ³ /15min IDLH carcinogen
Respirators: <100ug/m3 us	(personal protective measures) e APR, >100ug/m³ use SCBA -viton,butyl,vinyl,nitrile,neoprene.
Disposal P Fire	(Use numbered codes; see attached sheets for explanation.) 11.13 Leaks&Spills 4.6.7.8.9 xic fumes of arsenic oxides.
	n immediately. artificial resp. if needed, medical attent. h large amounts of water for at least 15 min.

SYMPTOMS:

acute(immediate) exposure effects: ING-stomach disturbances, burning/dry oral cavities, vomiting, severe fluid loss, muscle spasms, coma. IHL-cough, chest pain, headache, weakness, perforation of nasal septum, irritation of respiratory tract. possible skin irritation.

chronic(long term) exposure effects: IHL-industrial chronic poisoning: fatigue, weakness, loss of appetite, nausea, diarrhea, hoarseness, upper resp. mucosa irritation, advanced stages see nerve problems in extremities. Liver damage, lung cancer, skin cancer also may result.

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	Chen	nical Name_	Chromium (metal)	Date	
<u>)</u> '	DOT	Classifica	ation	Job Number	
	CAS	Number	7440-47-3		
	REFI NIOS ACGI	CRENCES COL SH/OSHA Pool IH TLV Bool	NSULTED (circle; also inc cket Guide) Merck Index (klet) Toxic & Hazardous S Sittig	Hazardline Chri	s(vol.III)
•	Chem Phys Flas	nical Formusical States sh Point <u>va</u>	ERTIES: (Synonyms: Chromium ala <u>Cr</u> MW 5 e variable Boiling Pariable Flammable Limit ity/Density 7.2082° F Od	<pre>2 Ionization Po oint 4842°F Free s LEL23% Vapor</pre>	tential <u>N/A</u> zing Point <u>3339°F</u> Pressure <u>variable</u>
			ter: <u>Insoluble</u> Solu ties & Reactivity: <u>strong</u>		
")	TOXI Expo ST Toxi Hu Ra Ac Ca Rout Dern HANI Resi Prot Spec	COLOGICAL DSURE Limit DSURE Limit DEL none es icity Data uman; If ut/Mouse; If uatic: ercinogen ce(s) of ex nal Contact DLING RECON DITATORS: cective Clo	PROPERTIES: ts: TLV-TWA (ACGIH) 0.5 tc: Ceiling Limits n (Indicate duration of s HL Dermal Other: N/A Mutagen N/A rposure - (circle all that Eve(ocular) Dermal Ab MMENDATIONS: (personal pr mg/m³ - SCBA othing: Prevent skin/eye ment: Wear impervious clo and SPILLS: (Use numbered explanation. Fire 13	mg/m³ PEL (OS one est. IDL tudy) Ora Ora Reproductive To t apply): Inhala sorption Other otective measure contact. thing. codes; see attace)	HA) 1.0 mg/m³ H 500 mg/m³ l 1 l 2 l 2 l 3 l 4 l 4 l 5 l 5 l 6 l 6 l 7 l 7 l 7 l 8 l 8 l 8 l 8 l 8 l 8 l 8 l 8 l 8 l 8
	FIRST ING: IHL: Eye/	omposition GT AID: Large amo Move to to Skin: Irr; with PTOMS: te(immediate	Products: ounts of water, induce vom fresh air, artificial resp igate/rinse with large am n soap & water. te) exposure effects: Con nucosa, irritation of eyes	iting, medical at .if necessary, me ounts of water. W	tent. immed. dical atten. ash skin thoroughly
·- }	stat	e since cl	term) exposure effects: Naromium compounds in this effects: None specified f	state are of a	
•	Tabr	- AUGULTAG (orrocos. None shectited t	or numana.	

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	Chemical Name	Lead	Date_	
` }	DOT Classification	n	Job N	umber
	CAS Number743	9-92-1		
NI AC	FERENCES CONSULTED OSH/OSHA Pocket Gu GIH TLV Booklet) T ECS) other: Sitt	ide Merck oxic & Haza	Index (Hazardlin	e Chris(vol.III)
Ch Ph F1 Sp So	ash Point <u>Incombus</u> ecific Gravity/Den lubility-water: <u>In</u>	Pb able Bot t. Flammable sity 11.3 @ soluble	MW 207 Ioniza iling Point 3164 e Limits Incombu 61° FOdor/ Odor T Solubility-ot	tion Potential N/A F Freezing Point S Vapor Pressure variable Threshold None
To	STEL None est. oxicity Data: (Indi Human; IHL Rat/Mouse; IHL Aquatic: Unknown Carcinogen_Indef.	-TWA (ACGIH _ Ceiling L. cate duration _ Do _ Do _ O Mutagen_Indo _ (circle	imits None est. on of study) ermal ermal ther: Toxicity v ef Reproducti all that apply):	PEL (OSHA) 50ug/m³ IDLH Variable Oral Td10 450mg/kg/6Y Oral Tdlo 790mg/kg aries with lead cpds. ve Toxin exp.teratogen Inhalation Ingestion Other
HA Re	NDLING RECOMMENDAT	IONS: (personial personial	onal protective ency particulate CBA.	measures) respirator, other
<u>D1</u>	SPOSAL, FIRE and SP	<u>'ILLS</u> :(Use n expla	umbered codes;se	e attached sheets for
Di De	sposal P composition Produc	Fire 13	Leaks&Sp	pills 7,8,10
IN		ir, artifica	al resp. if nece	tion immed. ssary, medical attent. horoughly with soap & water.
ac fr di ch	com prolonged exposing arrhea, black stool arrhea, black stool aronic(long term) exin, discomfort, considerable behavior and aralysis compared arrheads of the considerable are also are also are also are arrheads.	ure.Symptoms, s, anemia, sxposure effortipation or cular, muscipencephalic Human epicale germ ce	s include stomace nervous system eects: 3 clinical diarrhea, metall le weakness, join brain involvemed, studies have lls; increased in	deurotoxin-commonly occurs th distress, vomiting, effects. types:a-ailmentary-abominal dic taste, lead line on gum et/muscle pain, dizziness, ent, stupor, coma, death, rare. concluded that lead is a didence of miscarriages, eion & decreased motiltiy in

12/86

males